

## Exercises [A-1]

~~10-17~~

[10-03-17-P1]

Solve the following equations:

- |                        |                            |
|------------------------|----------------------------|
| 1. $(x-3)(x-2) = 0$    | 11. $2x^2 - 5x + 2 = 0$    |
| 2. $(x+4)(x-4) = 0$    | 12. $3x^2 + 7x = 0$        |
| 3. $(3x+5)(x+6) = 0$   | 13. $6x^2 - x - 1 = 0$     |
| 4. $x(2x-11) = 0$      | 14. $7z^2 + 8z + 1 = 0$    |
| 5. $3(x-2)(2x+1) = 0$  | 15. $3x^2 - 8x + 4 = 0$    |
| 6. $x^2 - 6x + 8 = 0$  | 16. $2z^2 + 5z = 0$        |
| 7. $p^2 - 7p - 78 = 0$ | 17. $9z^2 + 6z + 1 = 0$    |
| 8. $4y^2 - 25 = 0$     | 18. $2z^2 - 7z - 15 = 0$   |
| 9. $2x^2 - 3x + 1 = 0$ | 19. $12y^2 - 20y - 25 = 0$ |
| 10. $5x^2 - x = 0$     | 20. $6y^2 + 11y - 72 = 0$  |

## Exercises [A-2]

Solve the following equations:

- |                       |                        |
|-----------------------|------------------------|
| 1. $(y+1)(y-6) = 0$   | 5. $4(2x+3)(2x+7) = 0$ |
| 2. $(2y-3)(y-7) = 0$  | 6. $y^2 - 2y - 15 = 0$ |
| 3. $(2z-9)(2z+9) = 0$ | 7. $x^2 - 4 = 0$       |
| 4. $5z(z+1) = 0$      | 8. $z^2 + 9z + 14 = 0$ |

- |                          |                            |
|--------------------------|----------------------------|
| 9. $3y^2 + y - 2 = 0$    | 15. $49 - 4y^2 = 0$        |
| 10. $z^2 + 10z = 0$      | 16. $4x^2 - 4x - 3 = 0$    |
| 11. $y^2 - 10y + 25 = 0$ | 17. $6x^2 + 17x + 12 = 0$  |
| 12. $9y^2 - 1 = 0$       | 18. $12p^2 - 20p + 3 = 0$  |
| 13. $4p^2 - 29p + 7 = 0$ | 19. $10x^2 - 43x + 45 = 0$ |
| 14. $4x^2 + 7x - 15 = 0$ | 20. $4x^2 + 35x + 66 = 0$  |

1. -1, 6

3.  $4\frac{1}{2}$ ,  $-4\frac{1}{2}$

5.  $-1\frac{1}{2}$ ,  $-3\frac{1}{2}$

7. -2, 2

2.  $1\frac{1}{2}$ , 7

4. 0, -1

6. 5, -3

8. -7, -2

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9.  $\frac{2}{3}$ , -1

12.  $\frac{1}{3}$ ,  $-\frac{1}{3}$

15.  $-3\frac{1}{2}$ ,  $3\frac{1}{2}$

18.  $\frac{1}{6}$ ,  $1\frac{1}{2}$

10. -10, 0

13.  $\frac{1}{4}$ , 7

16.  $-\frac{1}{2}$ ,  $1\frac{1}{2}$

19.  $1\frac{4}{5}$ ,  $2\frac{1}{2}$

11. 5, 5

14.  $1\frac{1}{4}$ , -3

17.  $-1\frac{1}{3}$ ,  $-1\frac{1}{2}$

20.  $-2\frac{3}{4}$ , -6